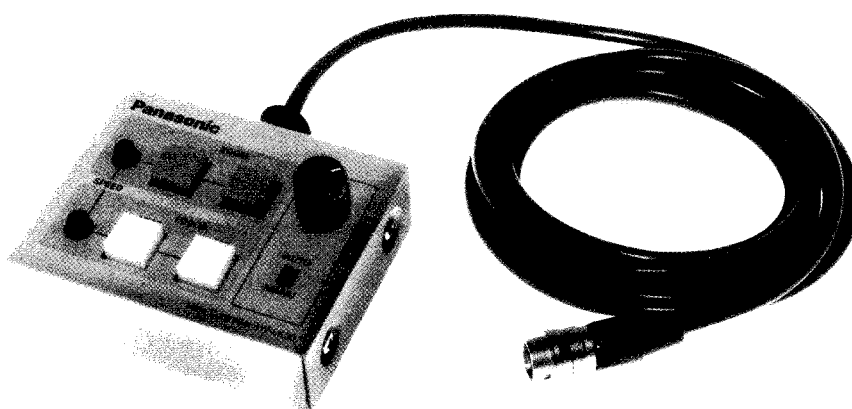


# Service Manual

Lens Controller  
**AW-LK30**



## SPECIFICATIONS

<b>Power supply :</b>	12 V DC, 60 mA (supplied from lens)
<b>Lens control :</b>	Zoom: Speed, tele/wide
<b>Focus :</b>	Speed, near/far
<b>Iris :</b>	Auto/manual, open/close
<b>Connecting cable length :</b>	190 cm
<b>Operating temperature range :</b>	-10°C to +45°C (14°F to +113°F)
<b>Humidity :</b>	30% to 90%
<b>Dimensions :</b>	90 (W) x 40 (H) x 70 (D) mm [3-17/32" x 1-9/16" x 2-3/4"]
<b>Weight :</b>	400 g (0.9 lbs.)
<b>Finish :</b>	AV ivory paint (close to Munsell 7.9Y6.8/0.8)

Weight and dimensions indicated are approximate.  
Specifications are subject to change without notice.

## STANDARD ACCESSORY

Clamper .....	1 each, right and left
Clamp screw .....	1 pc
Mounting screw .....	2 pcs

# Panasonic®





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distribution is a violation of law.

## **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

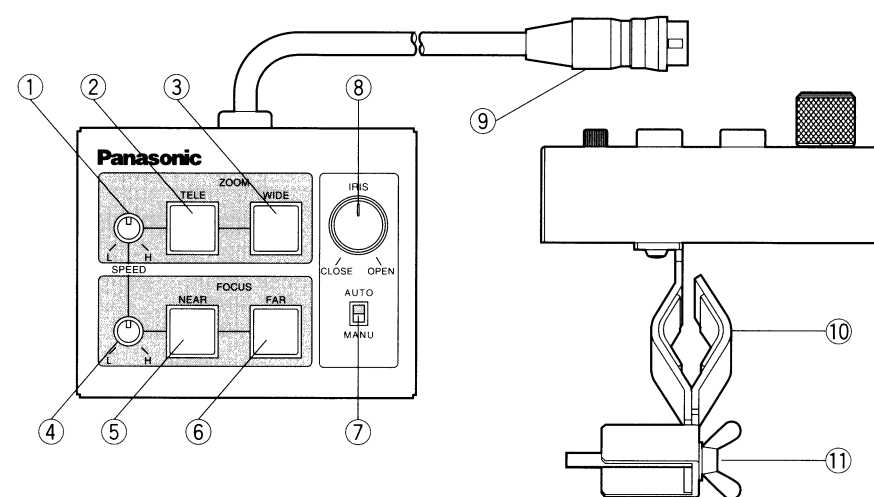
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

<div data-bbox="221 694 686 807"><div data-bbox="360 718 556 785"><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</div></div> <div data-bbox="221 807 686 990"><p><b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p></div>		<p>This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.</p>
		<p>This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.</p>

## **IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are important for safety. These parts are indicated by the "⚠" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



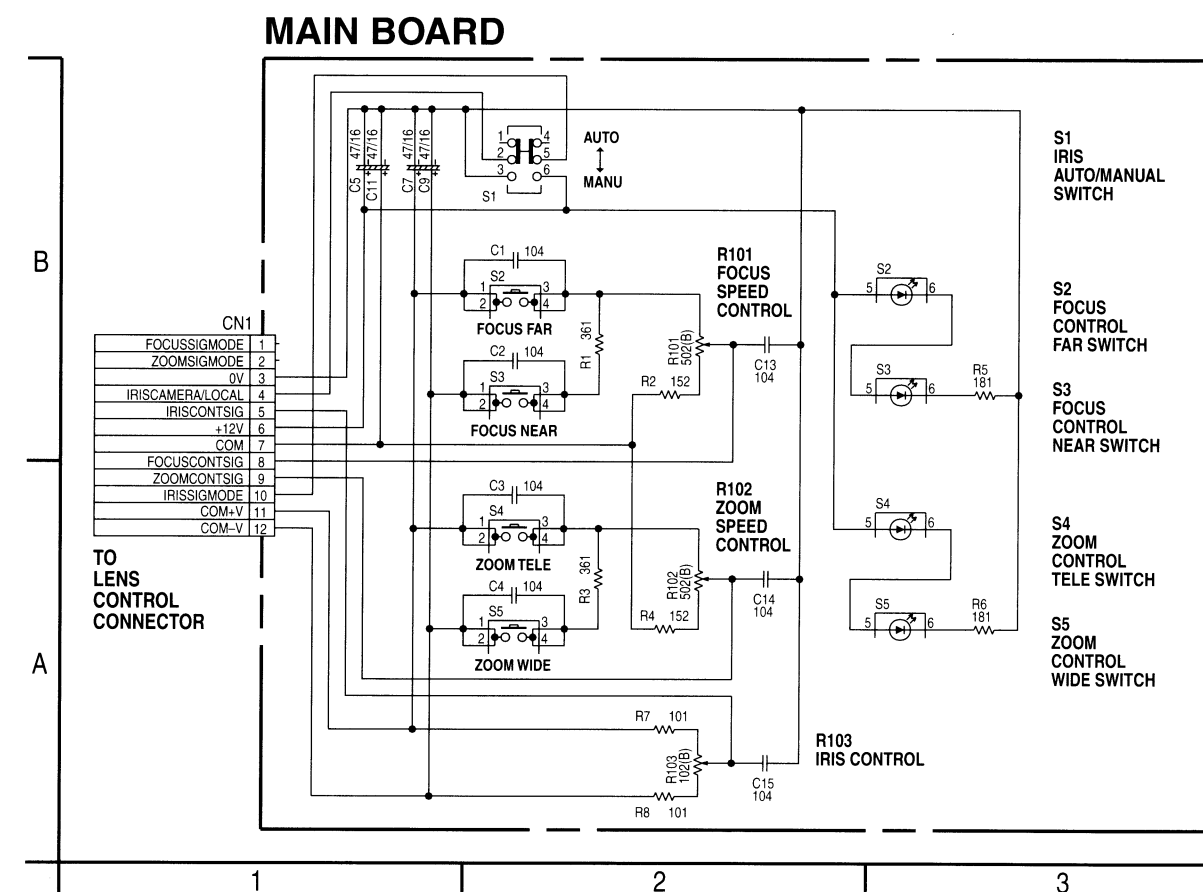
- ① **Zoom Speed Control [ZOOM SPEED L/H]**  
To adjust lens zoom control speed. Turning it clockwise increases speed.
- ② **Zoom Control Tele Switch [ZOOM TELE]**  
The lens zooms in the telescopic direction while the switch is kept depressed.
- ③ **Zoom Control Wide Switch [ZOOM WIDE]**  
The lens zooms in the wide angle direction while the switch is kept depressed.
- ④ **Focus Speed Control [FOCUS SPEED L/H]**  
To adjust lens focus control speed. Turning it clockwise increases speed.
- ⑤ **Focus Control Near Switch [FOCUS NEAR]**  
The lens focus draws near while the switch is kept depressed.
- ⑥ **Focus Control Far Switch [FOCUS FAR]**  
The lens focus moves far while the switch is kept depressed.

- ⑦ **Iris Auto/Manual Switch [IRIS AUTO/MANU]**  
At AUTO, the iris is automatically controlled (ALC).  
At MANU, the iris can be adjusted with Iris Control ⑧.

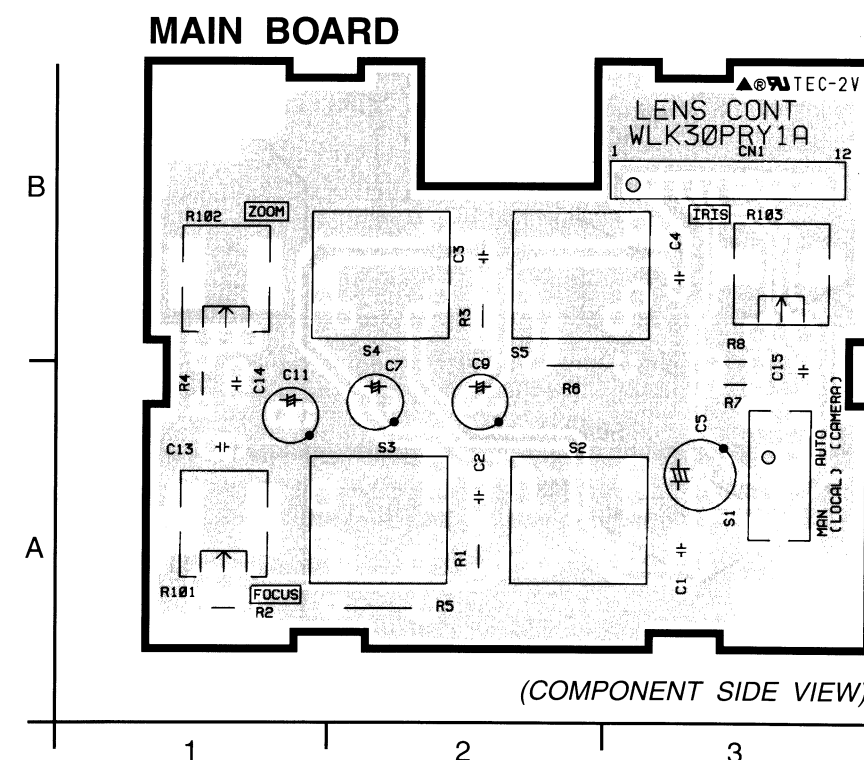
**Caution**  
If your lens has zoom, focus and iris AUTO/MANU switches, set all the AUTO/MANU switches to AUTO.

- ⑧ **Iris Control [IRIS CLOSE/OPEN]**  
The iris can be adjusted from CLOSE to OPEN or vice versa when Iris AUTO/MANU switch ⑦ is at MANU. Turn it counterclockwise to close the iris, or clockwise to open it.
- ⑨ **Lens Control Connector**  
Connect the zoom/focus control cable of your lens to it.
- ⑩ **Clamper**  
Use it to clamp the lens controller to the grip of a tripod, for example.
- ⑪ **Clamp Screw**  
Tighten this screw to fasten the lens controller to the grip of a tripod, for example.

# SCHEMATIC DIAGRAM



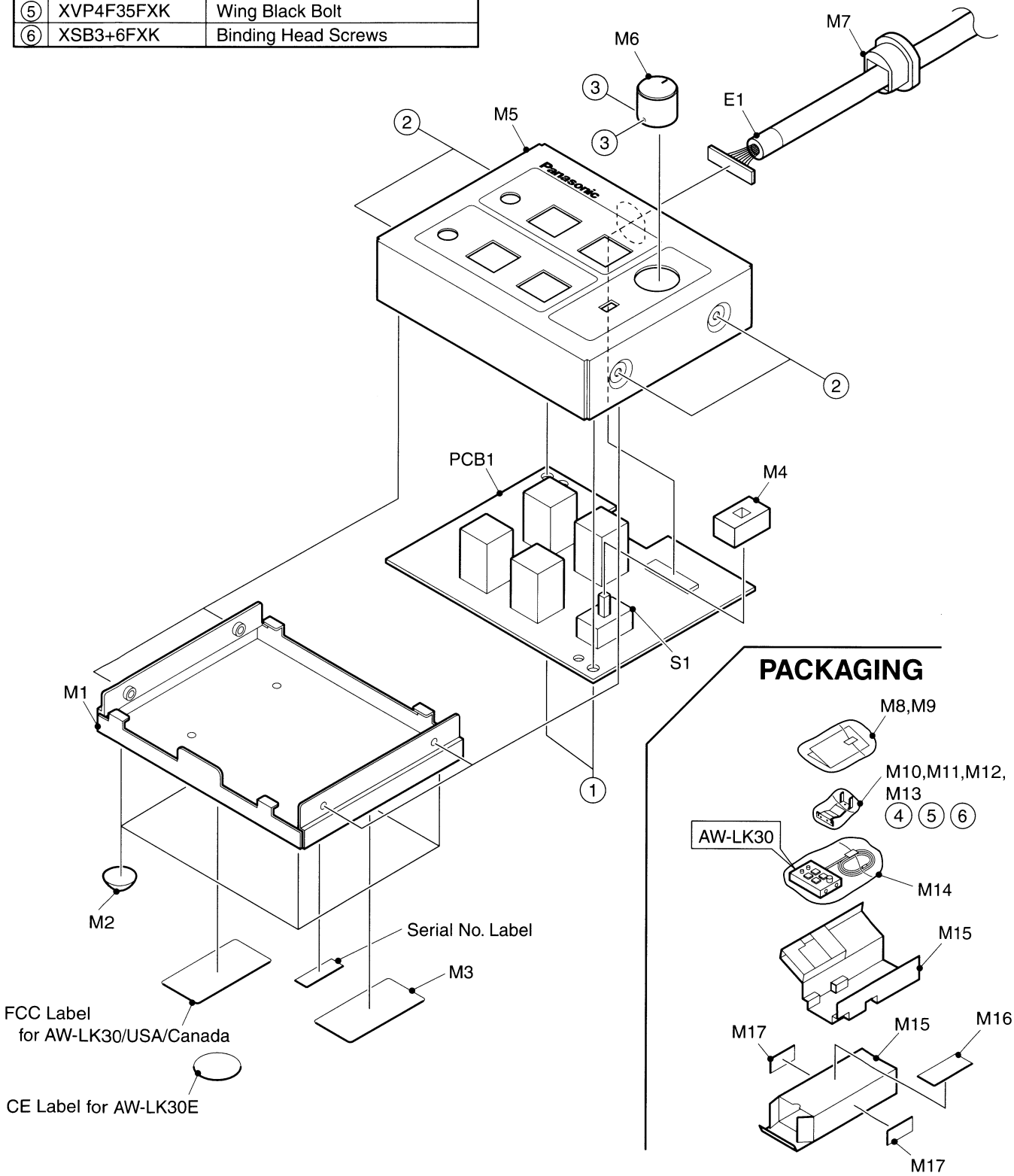
# CONDUCTOR VIEW



EXPLODED VIEW

○ Numbers show screws, washers, nuts and etc.

No.	Screws	Description
①	XSB3+6FX	Binding Head Screws
②	XSB3+4FN	Binding Head Screws
③	XXE26C4FXK	Hex Slotted Head Black Screws
④	XWG4FXK	Round Plain Black Washer
⑤	XVP4F35FXK	Wing Black Bolt
⑥	XSB3+6FXK	Binding Head Screws



REPLACEMENT PARTS LIST

Important Notice

- Components identified by " ⚠ " mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.
- RTL : Retention Time Limited (No longer available after discontinuing product).

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
MISCELLANEOUS			ACCESSORY PARTS / PACKAGING PARTS		
E1	LK30A1	Lens Control Cord	M8	⚠ 7J1A332A	Operating Instructions for AW-LK30/USA/Canada
M1	1K1A107A	Bottom Cover		7J1A333A	Operating Instructions for AW-LK30E
M2	SJ-5003	Rubber Foot	M9	XZB26X40C05	Polyethylene Bag
M3	⚠ 7Z1A058A	Main Label for AW-LK30/USA/Canada	M10	1B1B452A	Mounting Main Bracket
	7Z1A059A	Main Label for AW-LK30E			
M4	5E1A018A	Switch Cushion	M11	1B1B453A	Mounting Sub Bracket
M5	1K1A106BA	Upper Cover	M12	5G1A103A	Rubber Sheet
M6	2R1A015A	Iris Knob	M13	YWT15X20C03	Polyethylene Bag
M7	YWSR5N4	Cord Clamp	M14	XZB26X40C05	Polyethylene Bag for AW-LK30/USA/Canada
MAIN BOARD				PE26X40C05A	Polyethylene Bag for AW-LK30E
PCB1 (RTL)		Printed Circuit Board Ass'y	M15	0C1A062A	Packaging Ass'y
R1	ERDS2TJ361	Carbon 360 ohms 1/4W	M16	V8FA0070A4	Caution Label
R2	ERDS2TJ152	Carbon 1.5K ohms 1/4W	M17	YFV8FA0137A4	Packing Label for AW-LK30/USA/Canada
R3	ERDS2TJ361	Carbon 360 ohms 1/4W		YVW8FA0140A4	Packing Label for AW-LK30E
R4	ERDS2TJ152	Carbon 1.5K ohms 1/4W			
R5,6	ERDS1TJ181	Carbon 180 ohms 1/2W			
R7,8	ERDS2TJ101	Carbon 100 ohms 1/4W			
R101,102	D2AAA53B0001	Variable Resistor 5K ohms			
R103	D2AAA13B0001	Variable Resistor 1K ohms			
C1-4	F1E1H104A067	Ceramic 0.1 μF			
C5,7	R3S16V470MR	Electrolytic 47 μF 20V			
C9,11	R3S16V470MR	Electrolytic 47 μF 20V			
C13-15	F1E1H104A067	Ceramic 0.1 μF			
S1	YWSSSF022P9N	Switch			
S2	15EL1220000	Switch			
S3	K0F222A00120	Switch			
S4,5	K0F146A00001	Switch			
CN1	K1KA12A00041	12-pin Connector			